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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-16-03** **Date: 20-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/50/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-17

Sample ID No : 2017-05-16-03/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	13/05/2017	20/05/2017	149.67 X 150.33 X 150.76	22500	8.219	285.7	12.7	12.9
2	PCC	M15	13/05/2017	20/05/2017	150.48 X 150.82 X 150.72	22695	8.176	292.8	12.9	
3	PCC	M15	13/05/2017	20/05/2017	150.29 X 150.38 X 150.77	22601	8.173	298.3	13.2	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

AEE (VRP) SD

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

10th A Cross Road No.11

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-16-03** **Date: 10-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/50/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-17

Sample ID No : 2017-05-16-03/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	13/05/2017	10/06/2017	150.22 X 150.83 X 150.87	22658	8.172	419.2	18.5	18.1
2	PCC	M15	13/05/2017	10/06/2017	150.38 X 150.82 X 150.37	22680	8.134	415.0	18.3	
3	PCC	M15	13/05/2017	10/06/2017	151.39 X 150.84 X 150.76	22836	8.182	401.9	17.6	

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Prepared by
Harsitha

AEE (VNP) SO

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE, AEO-II

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-02** **Date: 24-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/50/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-02/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	17/05/2017	24/05/2017	149.84 X 150.98 X 150.84	22623	8.244	398.2	17.6	16.9
2	Drain Concrete	M20	17/05/2017	24/05/2017	150.55 X 150.47 X 150.33	22653	8.154	369.2	16.3	
3	Drain Concrete	M20	17/05/2017	24/05/2017	150.48 X 150.87 X 150.33	22703	8.293	381.4	16.8	

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Prepared by
Harsitha

AEE (VRP) SD

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-02** **Date: 14-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/50/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-02/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/05/2017	14/06/2017	151.85 X 150.74 X 151.23	22890	8.125	537.9	23.5	23.5
2	Drain Concrete	M20	17/05/2017	14/06/2017	151.74 X 150.76 X 150.67	22876	8.154	528.4	23.1	
3	Drain Concrete	M20	17/05/2017	14/06/2017	150.62 X 150.74 X 150.77	22704	8.143	540.4	23.8	

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Prepared by
Harsitha

AEE (VRP) SD

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CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-02** **Date: 24-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/50/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-02/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/05/2017	24/05/2017	150.54 X 150.22 X 150.83	22614	8.132	373.1	16.5	17.0
2	Drain Concrete	M20	17/05/2017	24/05/2017	150.22 X 151.82 X 150.74	22806	8.183	394.6	17.3	
3	Drain Concrete	M20	17/05/2017	24/05/2017	150.24 X 150.89 X 150.32	22670	8.116	392.2	17.3	

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Harsitha

AEE (VRP) SD

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CIVIL PRO Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-02** **Date: 14-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/50/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-02/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	17/05/2017	14/06/2017	150.22 X 149.56 X 150.37	22467	8.146	541.5	24.1	23.7
2	Drain Concrete	M20	17/05/2017	14/06/2017	150.33 X 150.73 X 150.38	22659	8.188	534.8	23.6	
3	Drain Concrete	M20	17/05/2017	14/06/2017	150.39 X 151.23 X 150.73	22743	8.165	529.9	23.3	

Note:
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Prepared by
Harsitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-05-08-03** **Date: 11-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/50/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-03/04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	08-05-2017 to 11-05-2017

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	201	16322	32.760	2007.1	2007.5	Not less than 1800Kg/m^3
2	401	203	202	16443	32.920	2002.0		
3	402	201	202	16322	32.860	2013.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.650	32.710	2.87	3.08	Shall not be more than 10% by mass
2	33.580	32.530	3.23		
3	33.290	32.280	3.13		

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-08-03** **Date: 11-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/50/ 2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-03/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-05-2017 to 11-05-2017
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	23	23	2.3	97.7	90-100	90-100	90-100	95-100
3	2.36 mm	201	224	22.4	77.6	60-95	75-100	85-100	95-100
4	1.18 mm	172	396	39.6	60.4	30-70	55-90	75-100	90-100
5	600 micron	134	530	53	47.0	15-34	35-59	60-79	80-100
6	300 micron	232	762	76.2	23.8	5-20	8-30	12-40	15-50
7	150 micron	162	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-08-03** **Date: 11-05-17**

Sample ID No : 2017-05-08-03/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.21	–
2	Specific Gravity	2.60	–
3	Material finer than 75 micron(%)	6.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

FOR CIVIL Pro.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-08-03** **Date: 11-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.
Customer Reference	:	BBMP/EE/BTP/WO/50/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-03/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-05-2017 to 11-05-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	244	244	4.9	95.1	90-100
3	10 mm	2282	2526	50.5	49.5	25-55
4	4.75 mm	2335	4861	97.2	2.8	0-10
5	Pan	139	5000	100	0	–

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-08-03** **Date: 11-05-2017**

Sample ID No : 2017-05-08-03/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.55	–
5	Bulk Density(Compacted) (Kg/l)	1.62	–
6	Water Absorption(%)	0.32	–
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.2	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-08-03** **Date: 11-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/50/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-03/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-05-2017 to 11-05-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	312	312	2.1	97.9	90-100
3	20 mm	6165	6477	43.2	56.8	30-70
4	10 mm	4921	11398	76.0	24.0	10-35
5	4.75 mm	3292	14690	97.9	2.1	0-5
6	Pan	310	15000	100.0	0	---

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-08-03** **Date: 11-05-2017**

Sample ID No : 2017-05-08-03/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.1	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.25	–

Note:

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Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 11-05-2017

Lab ID	:	**CP-2017-05-08-03**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/50/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-03/01
Sample Type	:	Ultratech 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-05-2017 to 10-05-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.14	–
2	Finess by Air permeablity method (m^2/kg, Min)	292.6	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	195 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Harshitha

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Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-08-03** **Date: 06-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/50/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-03/01
Sample Type	:	Ultratech 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-05-2017 to 06-06-2017

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Harshitha

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-05-12-01** **Date: 16-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.

Customer's Reference : BBMP/EE/BTP/WO/50/ 2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-05-17

Sample ID No : 2017-05-12-01-04

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 12/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.49	1.116	4477	82.9	18.5	17.2	21.5
2	Cover Slab-2	75.49	100.50	1.122	4475	79.3	17.7	16.5	20.6
3	Cover Slab-3	75.50	100.53	1.118	4476	82.3	18.4	17.1	21.4

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Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2017-05-12-01**	**Date: 16-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.	
Agency	:	Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.	
Customer's Reference	:	BBMP/EE/BTP/WO/50/ 2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-05-17	
Sample ID No	:	2017-05-12-01-05	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	12/05/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.04	165.38	2.864	7859	138.1	17.6	16.3	20.4
2	B	100.06	165.45	8.793	7862	137.2	17.4	17.4	21.8
3	C	100.02	165.35	8.815	7856	140.1	17.8	17.8	22.3

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Harshitha

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-12-01** **Date: 15-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/50/ 2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-17
Sample ID No	:	2017-05-12-01-01
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	12-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus Fe 500	Fe500	8mm	0.392	526	615	19.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus Fe 500	Fe500	8mm	Satisfactory	Satisfactory

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-12-01** **Date: 15-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/50/ 2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-17
Sample ID No	:	2017-05-12-01-02
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	12-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus Fe 500	Fe500	10mm	0.612	535	633	19.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus Fe 500	Fe500	10mm	Satisfactory	Satisfactory

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Harshitha

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-12-01** **Date: 15-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to drain and Construction of Culverts at Singapura village cross roads and and Surrounding area in Ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Sri Aswathnarayana, No:10, Channappalayout, Sharadhambanagara, Bangalore-560 013.
Customer's Reference	:	BBMP/EE/BTP/WO/50/ 2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-17
Sample ID No	:	2017-05-12-01-03
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	12-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus Fe 500	Fe500	12mm	0.888	564	669	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus Fe 500	Fe500	12mm	Satisfactory	Satisfactory

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Prepared By:
Harshitha
AEE (VRP) SD

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Authorized Signatory
Quality Manager

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